*Quadratic Quiz Tomorrow! (You must have a* ***graphing calculator****.)*

**Failure to show work on all problems or  
use complete sentences will result in a LaSalle.**

Name:

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Geometry, Period

Due Date: Fri, May 15, 2015

**Geometry**

**Homework**



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| --- | --- | --- | --- |
| 1. Which multiple choice option describes the correct transformation of to the parent graph ()?  A. Shrink and shift down 2 units  B. Stretch and shift down 2 units  C. Stretch and reflection across the x-axis  D. Shrink, shift down 2 units, and reflection  across the x-axis  E. Shrink and reflection across the x-axis | | 2. How would the graph of the function y = x2 + 2 be affected if the function were changed to y = x2 – 5?  A. The graph would shift 5 units up.  B. The graph would shift 5 units down.  C. The graph would shift 7 units down.  D. The graph would shift 7 units to the right.  E. The graph would shift 2 units down. | |
| 3. Describe the transformation of y = x2  + 1 to the parent function. | | 4. How would the graph of the function  y = x2 – 1 affected if the function were changed to  y = 2x2 – 4? | |
| 5) Describe the transformation of y = 3x2 – 4 to the parent function. | | 6) How would the graph of the function  y = x2 – 4 be affected if the function were changed to  y = -x2+ 3? | |
| 7)  A) Create a table of values.  B) Graph the equation  C) Identify the axis of symmetry: \_\_\_\_\_\_\_\_  D) Identify the vertex: \_\_\_\_\_\_\_\_ Max? or Min?  E) Solution(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  | |
| 8)  A) Create a table of values.  B) Graph the equation  C) Identify the axis of symmetry: \_\_\_\_\_\_\_\_  D) Identify the vertex: \_\_\_\_\_\_\_\_ Max? or Min?  E) Solution(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | |
| 9) **y = x2 – 7x + 12** (Use for the VANG problem below) | | |
| Verbal:  y-intercept:  x-intercept:  Vertex (min/max?):  Axis of Symmetry:  Solution(s):  **These must all be shown in the “G” section as well.** | | Analytical: |
| Numerical: | | Graphical: |